

Targus Low Power Ethernet Card™

Mobile Computer

Low Power Ethernet Card™



TARGUS
A TRADITION OF EXCELLENCE

User's Guide

Chapter 1 - Quick Start

Overview

This chapter summarizes how to install the LP-E Card software for Pocket PCs and Windows CE-based Palm-size PCs, Handheld Pros, or pen tablets. It assumes you are familiar with network settings and the devices you are using.

For more detailed instructions, refer to [Pocket PC Setup](#), on page 10, or [Windows CE Setup](#), on page 21.

Pocket PCs

This procedure applies only to Pocket PCs.

To install software for Windows CE-based mobile computers, refer to the section titled [Windows CE](#), on page 4.

NOTE: Complete the software installation steps before inserting the LP-E Card.

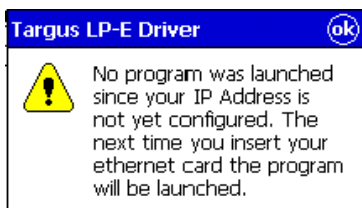
- 1 Connect your Pocket PC to the host PC using the synchronizing cradle and cable.
- 2 Create an active partnership between your Pocket PC and the host PC.
- 3 Insert the *LP-E Card Installation CD* into the host PC.

- 4 Run SETUP from the CD-ROM.

*NOTE: If asked to confirm file replacing, choose **Yes to All**.*

- 5 When downloading is complete, click **OK**.
- 6 Reset your Pocket PC to load the new software.
- 7 When Setup is complete, click **OK** and remove your Pocket PC from its cradle.
- 8 Plug the LP-E Card into an active Ethernet connection.
- 9 Insert the LP-E Card into your Pocket PC's CompactFlash I/O card slot.

When your Pocket PC displays the following message, tap **OK**.



- 10 Use the IP Address screen to configure your network settings, then tap **OK**.
- 11 Remove the LP-E Card, then reinsert it and connect the cable to your network.

CAUTION: The new IP settings will not take effect until you reinsert the card.

- 12** On the ActiveSync screen, choose **Network Connection** and the name of the host PC, then tap **Connect...**

By default, ActiveSync starts whenever you insert the LP-E Card. To prevent this, or to run a different program when you insert the card, use Targus' LP-E Card Applet. This applet enables you to:

- ❖ Specify which program (if any) to launch automatically upon card insertion
- ❖ Enable/disable network status icons in the task tray
- ❖ Determine the frequency with which the system checks network status
- ❖ View a summary of IP information
- ❖ Specify a delay before the driver attempts to connect to the network or launch a program.

For more information, refer to [LP-E Card Applet](#), on page 17.

Windows CE

This procedure applies only to Windows CE-based mobile computers.

To install software for Pocket PCs, refer to the section titled [Pocket PCs](#), on page 2.

The Windows CE screens you see may differ from the examples given depending on the type of mobile computer you use.

NOTE: Complete the software installation steps before inserting the LP-E Card.

- 1 Connect your mobile computer to a host PC using the serial cable that came with the device.
- 2 Create an active partnership between your mobile computer and the host PC.
- 3 Insert the *LP-E Card Installation CD* into the host PC.
- 4 Run **SETUP** from the CD-ROM.
- 5 When your mobile computer displays the ActiveSync screen, set your configuration options then tap **Finish**.

NOTE: For instructions on how to configure ActiveSync, refer to [LP-E Card Applet](#), on page 27.

- 6 When the Setup Complete screen appears, tap **OK**, then reset your mobile computer to load the new software.
- 7 Remove the serial cable from your mobile computer, then plug the LP-E Card into an active Ethernet connection.
- 8 Insert the LP-E Card into your mobile computer.

NOTE: For instructions on card insertion, refer to [Connecting the LP-E Card to Your Computer](#), on page 36.

- 9 When the Targus LP-E Driver message appears, tap **OK**.
- 10 Use the IP Address screen to configure your network settings, then tap **OK**.

-
- 11** Remove the LP-E Card, then reinsert it and plug the LP-E cable into the network.

CAUTION: The new IP settings will not take effect until you reinsert the card.

- 12** In the ActiveSync screen, select **Network Connection** and the name of the host PC, then tap **Connect**.

By default, ActiveSync will be initiated every time you insert the LP-E Card. To prevent this, or to run a different program when you insert the card, you can use Targus' LP-E Card Applet. This applet also allows you to control other unique features of Targus' Ethernet software.

For more information, refer to [LP-E Card Applet](#), on page 27.

Chapter 2 - Introduction

How This Manual Is Organized

This manual is designed to help you install and operate the CompactFlash version of Targus' Low Power Ethernet (LP-E) Card on a Windows Powered Pocket PC or a Windows CE-based Palm-size PC, Handheld Pro or pen tablet.

This chapter explains where to find information about your LP-E Card and describes the product's key features. This chapter also identifies the parts included in the package.

Chapter 3 - [Pocket PC Setup](#), on page 10, describes how to install the LP-E Card software, configure network settings, and use the LP-E Card Applet for a Windows Powered Pocket PC.

Chapter 4 - [Windows CE Setup](#), on page 21, describes how to install the LP-E Card software, configure network settings, and use the LP-E Card Applet for a Windows CE-based mobile computer.

Chapter 5 - [Hardware Setup](#), on page 36, explains how to connect the LP-E Card to your Ethernet network, and how to insert and remove the card.

Chapter 6 - [Troubleshooting](#), on page 39, gives advice for correcting the most common problems you may encounter, explains how to obtain technical assistance, and tells you what information to have before contacting Targus.

Appendix - [Specifications](#), on page 42, provides technical data about the LP-E Card.

Features

Targus' Low Power Ethernet Card is the first Ethernet adapter compatible with Windows Powered Pocket PCs and Windows CE-based mobile computers, including Palm-size PCs, Handheld Pros, and pen tablets.

You can use the LP-E Card with Microsoft's ActiveSync™ software to connect your mobile computer to a partner PC and perform fast, location-independent synchronization of files, contacts, appointments, tasks, email or channel content. You can also use the LP-E Card to backup files and install software.

Targus' Ethernet software saves time by launching ActiveSync, or any other program, automatically and saves power by displaying network activity status icons on the Windows taskbar instead of using hardware LEDs.

Key Features

- ❖ 10 megabit-per-second performance via 10BaseT twisted pair Ethernet
- ❖ Location-independent operation means you can use the LP-E Card to stay connected to your data from any port on your local area network
- ❖ Battery Friendly™ card conserves energy and reduces the need to carry and connect AC adapters or replace/recharge batteries
- ❖ Plugs into the CompactFlash I/O card slot
- ❖ Targus' Ethernet software can launch ActiveSync, or any other program you specify, automatically on card insertion

-
- ❖ Targus' LP-E Card Applet for mobile computers includes icons that display GoodLink and Activity on the Windows status bar. You can use the applet to enable or disable automatic program launching. This applet also shows consolidated network data such as the LP-E Card's IP Address, MAC address, gateway address, etc.
 - ❖ The Ruggedized LP-E Card has a fixed cable with integrated strain relief
 - ❖ Lifetime warranty on the CompactFlash CF Card and non-removable cable

Chapter 3 - Pocket PC Setup

Overview

This chapter describes how to install the LP-E Card software, configure network settings, and manage the LP-E Card Applet for a Windows Powered Pocket PC.

After installing the LP-E Card, you will no longer require a serial connection for tasks such as synchronization, backup, program installation, email or web browsing.

If you have a Windows CE-based Palm-size PC, Handheld Pro or pen tablet, refer to [Windows CE Setup](#), on page 21, for installation instructions.

What You Need to Know

Before installing the LP-E Card make sure you:

- ❖ Know how to reset and restart your Pocket PC.
- ❖ Know how to establish a partnership with a Windows 9x/2000/NT computer.
- ❖ Consult your network administrator regarding proper TCP/IP protocols to avoid conflicts with other network devices.
- ❖ Back up all important data.

HINT: For more detailed information on resetting, restarting, and establishing a partnership for your Pocket PC, refer to Microsoft's Pocket PC documentation.

Make a copy of the Network Information Form and ask your network administrator to fill it out so that you can complete this installation.

Network Information Form

1 Dialup number: _____ - _____ - _____

User name: _____

Password: _____

2 Does your LAN support DHCP (Dynamic Host Configuration Protocol)?

☐ Yes (DHCP is supported)

☐ No (DHCP is not supported)

3 If DHCP is not supported by your LAN, what are the IP addresses for:

Pocket PC IP Address: _____ . _____ . _____ . _____

Subnet Mask: _____ . _____ . _____ . _____

Default Gateway: _____ . _____ . _____ . _____

4 If name servers are not assigned automatically by your network's DHCP server, what are the IP addresses for these name servers:

Primary DNS: _____ . _____ . _____ . _____

Secondary DNS: _____ . _____ . _____ . _____

Primary WINS: _____ . _____ . _____ . _____

Secondary WINS: _____ . _____ . _____ . _____

(If you don't run DHCP, you may have to use the IP address of your partner PC as the Primary WINS address to run ActiveSync)

Software Installation

This procedure applies only to Pocket PCs.

NOTE: Install the software BEFORE inserting the LP-E Card.

- 1 Connect your Pocket PC to a host PC using the synchronizing cradle and cable that came with your Pocket PC.
- 2 Insert the *LP-E Card Installation CD* into the host PC.

WARNING: The host PC must already be actively connected to your Pocket PC and have an established partnership.

- 3 Click **Start/Run** on the host PC, then type D:\SETUP (use the drive letter of your CD-ROM drive in the place of D:).

Follow the instructions on your host PC.

*NOTE: If your Pocket PC prompts you to confirm file replacing, tap **Yes to All** to continue.*

- 4 When the message "Application Downloading Complete" appears, click **OK**.
- 5 Reset your Pocket PC to load the new software.
- 6 When the Setup Complete screen appears, click **OK**.
- 7 Remove your Pocket PC from its cradle.

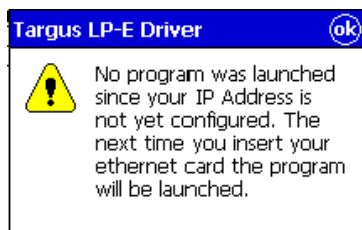
- 8 Plug the LP-E Card into an active Ethernet connection.

HINT: The host PC must be connected and currently logged into the same network as your Pocket PC.

- 9 Insert the LP-E Card into your Pocket PC's CompactFlash I/O card slot.

NOTE: For instructions on card insertion, refer to [Connecting the LP-E Card to Your Computer](#), on page 36.

The following message appears:



- 10 Tap **OK**.

When the IP Address screen appears, proceed to step 5 on page 15 to enter the network settings from your Network Information Form (on page 11).

To enter the network setting at any time, refer to [Configure Network Settings](#), on page 14.

Configure Network Settings

You can change the network configuration at any time using the IP Address screen on your Pocket PC.

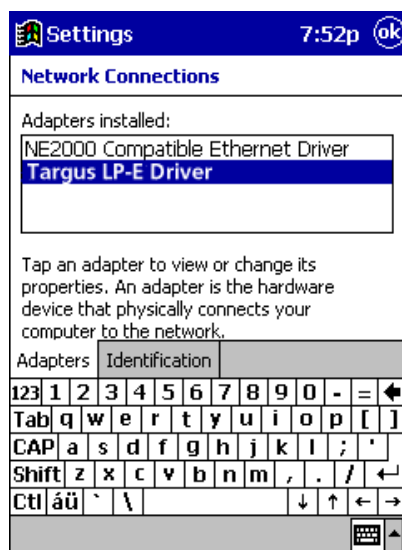
NOTE: Before configuring network settings, check that the LP-E Card is connected to an active Ethernet connection and inserted into your Pocket PC.

- 1 Tap **Start**, then **Settings**.
- 2 Tap the bottom **Connections** tab.
- 3 Tap the **Network** icon.



Network

You should see the Network Connections screen.



4 Tap **Targus LP-E Driver**.

The IP Address screen appears.

5 Select if you are using a server-assigned IP address (or DHCP), or a specific IP address.

DEFINITION: DHCP (Dynamic Host Configuration Protocol) - the protocol that enables a network to automatically assign a temporary IP address to a host when it connects to the network.

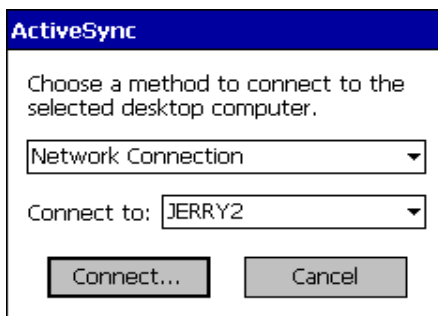
If using a specific IP address, enter the **IP Address**, **Subnet Mask** and **Default Gateway** values.

NOTE: If you use a specific (also called “static”) IP address instead of DHCP, you may need to enter the IP address of the host computer in the Primary WINS field ([step 6](#)) to use ActiveSync.

- 6 Tap the **Name Servers** tab and enter DNS and WINS addresses (if needed), then tap **OK**.
- 7 Remove the LP-E Card from your Pocket PC. (For instructions, refer to [Removing the LP-E Card](#), on page 37.)
- 8 Reinsert the LP-E Card into your Pocket PC and plug the LP-E cable into the network.

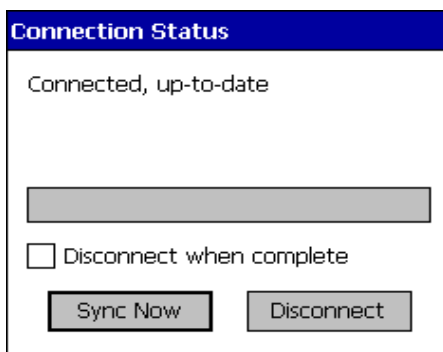
CAUTION: The new IP settings will not take effect until you reinsert the card. Resetting or power cycling your Pocket PC will not make it accept the new IP settings.

The ActiveSync screen appears.



- 9 Choose **Network Connection** and the name of the host computer, then tap the **Connect...** button.

Your Pocket PC begins the synchronizing process. When synchronizing is complete, the following screen appears.



NOTE: By default, ActiveSync starts whenever you plug in your LP-E Card. If you do not want to run ActiveSync automatically, or you want to run a different program, you can use Targus' LP-E Card Applet. This applet also allows you to control other unique features of Targus' Ethernet software.

If you get a message that no IP address has been set, please contact your network administrator.

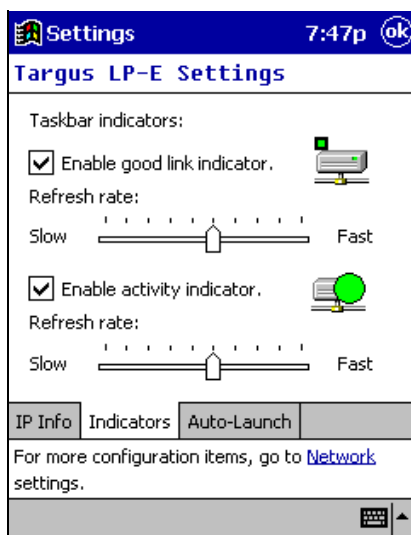
LP-E Card Applet

Targus' Ethernet driver displays the network icon on the Pocket PC task tray when you insert the LP-E Card. You can see the task tray from the Today window.

Targus' LP-E Card Applet lets you manage the network status icons, and specify what program (if any) to auto-launch during card insertion.

To open the LP-E Card Applet, tap the **LP-E** icon in the task tray.

To control the network indicators in the task tray, tap the **Indicators** tab. The Taskbar indicators screen appears.



If you check the box labeled **Enable good link indicator**, the network icon will display a square when GoodLink is detected:



(GoodLink detected)

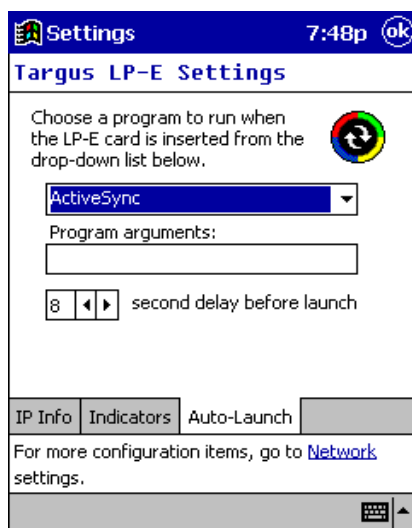
If you check the box labeled **Enable activity indicator**, the network icon will display a dot when Activity is detected:



(LP-E network Activity detected)

The two slide switches under each option box let you determine how often the Targus Ethernet driver checks network status. If you drag a gauge needle towards **Slow**, the corresponding indicator will remain longer in its most recent state. If you drag a gauge needle towards **Fast**, the corresponding indicator will change states more rapidly.

To control auto-launching, tap the **Auto-Launch** tab.



By default, ActiveSync will run automatically when you insert the LP-E Card. You can specify a different program to run at card insertion by selecting the program from the menu in the **Choose a program to run...** box. If the program needs arguments, you can enter them into the **Program arguments:** box. If you do not want to auto-launch any program, select **<do not run a program>** from the menu in the **Choose a program to run...** box.

The number in the **delay before launch** box controls how many seconds the Targus Ethernet driver will wait after card insertion before attempting to make a network connection or launch a program. Usually you can leave this number at its default value but, if you are having difficulty attaching to your network, you can try increasing the delay. You should rarely have to insert a delay longer than 10 seconds to make a network connection.

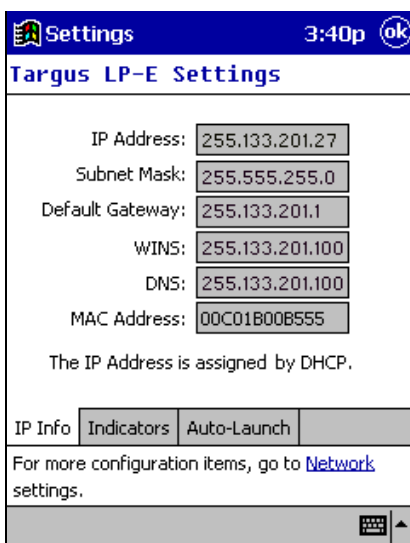
You can also open the control panel by tapping **Start**, **Settings**, and the **Connections** tab.

In the Settings window, tap the **Targus LP-E** icon.



Targus LP-E

You will see the **IP Info** tab of the Targus LP-E Settings window.



The screenshot shows the 'Settings' application with the 'Targus LP-E Settings' window open. The 'IP Info' tab is selected. The window displays the following configuration details:

IP Address:	255.133.201.27
Subnet Mask:	255.555.255.0
Default Gateway:	255.133.201.1
WINS:	255.133.201.100
DNS:	255.133.201.100
MAC Address:	00C01B00B555

Below the table, it states: 'The IP Address is assigned by DHCP.'

At the bottom, there are three tabs: 'IP Info' (selected), 'Indicators', and 'Auto-Launch'. Below the tabs, a message reads: 'For more configuration items, go to [Network settings](#).'

To change any of the IP addresses, follow the instructions in [Configure Network Settings](#), on page 14.

NOTE: The MAC address is a unique identification number programmed permanently into the LP-E Card.

Chapter 4 - Windows CE Setup

Overview

This chapter describes how to install the LP-E Card software, configure network settings, and manage the LP-E Card Applet for a Palm-size PC, Handheld Pro, or pen tablet mobile computer running Windows CE Version 2.11 or greater.

If you have a Windows Powered Pocket PC, refer to [Pocket PC Setup](#), on page 10, for installation instructions.

What You Need to Know

Before installing the LP-E Card make sure you:

- ❖ Know how to reset and restart your mobile computer.
- ❖ Know how to establish a partnership with a Windows 9x/2000/NT computer using a serial connection.
- ❖ Consult your network administrator regarding proper TCP/IP protocols to avoid conflicts with other network devices.
- ❖ Back up all important data.

HINT: For more detailed information on resetting, restarting, and establishing a partnership for your mobile computer, refer to Microsoft's Windows CE documentation.

Make a copy of the Network Information Form and ask your network administrator to fill it out so that you can complete this installation.

Network Information Form

- 1 Dialup number: _____ - _____ - _____
 User name: _____
 Password: _____
 - 2 Does your LAN support DHCP (Dynamic Host Configuration Protocol)?
☐ Yes (DHCP is supported)
☐ No (DHCP is not supported)
 - 3 If DHCP is not supported by your LAN, what are the IP addresses for:
 P/PC or H/PC IP Address: _____.
 Subnet Mask: _____.
 Default Gateway: _____.
 - 4 If name servers are not assigned automatically by your network's DHCP server, what are the IP addresses for these name servers:
 Primary DNS: _____.
 Secondary DNS: _____.
 Primary WINS: _____.
 Secondary WINS: _____.
- (If you don't run DHCP, you may have to use the IP address of your partner PC as the Primary WINS address to run ActiveSync)

Software Installation

This procedure applies only to Windows CE-based mobile computers. The Windows CE screens you see may differ from the examples given depending on the type of mobile computer you use. Targus' SETUP program automatically detects the type of device you have and installs the appropriate software.

HINT: Some mobile computers support a touch pad and not a pen, so whenever these instructions say tap, substitute click, as needed.

NOTE: Install the software BEFORE inserting the LP-E Card.

- 1 Connect your mobile computer to a host PC using the serial cable that came with the device.
- 2 Insert the *LP-E Card Installation CD* into the host PC.

WARNING: The host PC must already be actively connected to your mobile computer and have an established partnership.

- 3 Click **Start/Run** on the host PC and type D:\SETUP (use the drive letter of your CD-ROM drive in the place of D:).
Follow the instructions on the host PC.
- 4 When your mobile computer displays the ActiveSync screen, enter your configuration settings, then tap **Finish**.

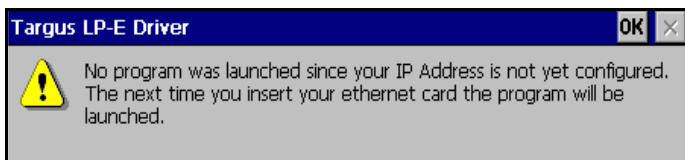
NOTE: For instructions on how to configure ActiveSync, refer to [LP-E Card Applet](#), on page 27.

- 5 When the Setup Complete screen appears, tap **OK**, then reset your mobile computer to load the new software.
- 6 Remove the serial cable from your mobile computer, then connect the LP-E Card to an active Ethernet connection.
- 7 Insert the LP-E Card into your mobile computer.

NOTE: For instructions on card insertion, refer to [Connecting the LP-E Card to Your Computer](#), on page 36.

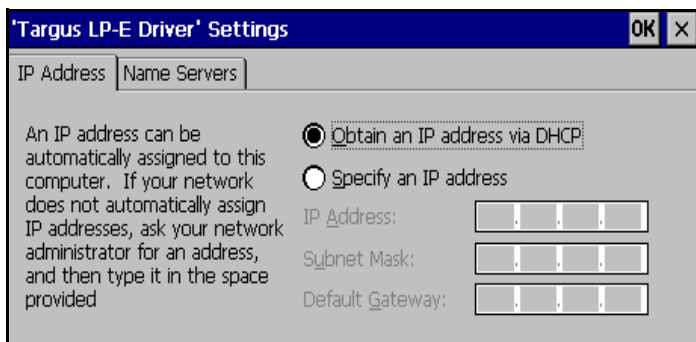
Targus' Ethernet driver displays the network icon on the Windows CE status line and launches ActiveSync automatically.

- 8 When your mobile computer displays the Targus LP-E Driver message, tap **OK**.



CAUTION: To avoid conflicts with other devices on the network, consult your network administrator for the proper settings.

The IP Address screen appears.



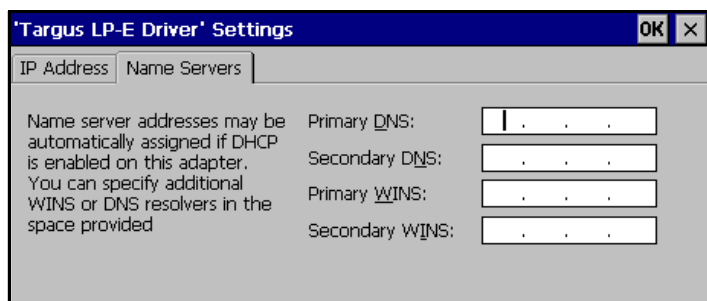
- 9 Select if you are using a server-assigned IP address (or DHCP), or a specific IP address.

DEFINITION: DHCP (Dynamic Host Configuration Protocol) - the protocol that enables a network to automatically assign a temporary IP address to a host when it connects to the network.

If using a specific IP address, enter the **IP Address**, **Subnet Mask** and **Default Gateway** values.

NOTE: If you use a specific (also called "static") IP address instead of DHCP, you may need to enter the IP address of the host computer in the Primary WINS field (steps 10) to use ActiveSync.

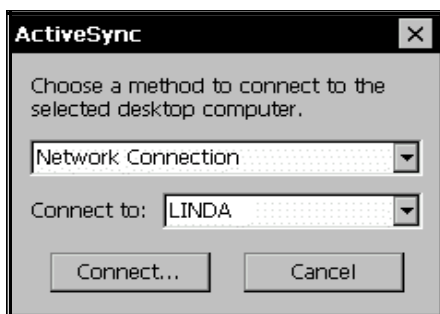
- 10 Tap the **Name Servers** tab and enter DNS and WINS addresses (if needed), then tap **OK**.



- 11 Remove the LP-E Card from your mobile computer.
- 12 Reinsert the LP-E Card into your mobile computer and plug the LP-E cable into the network.

CAUTION: The new IP settings will not take effect until you reinsert the card. Simply resetting or power cycling your mobile computer will not make it accept the new IP settings.

The ActiveSync screen appears.



- 13 Select **Network Connection** (usually at the bottom of the list) and the name of the host PC.
- 14 Tap the **Connect....** button.

Your mobile computer begins synchronization to the host PC already on the network.

NOTE: By default, ActiveSync will be initiated every time you plug in your LP-E Card. If you do not want to run ActiveSync automatically, or if you want to run a different program when you insert the card, you can use Targus' LP-E Card Applet. This applet also allows you to control other unique features of Targus' Ethernet software.

If you get a message saying that no IP address has been set, please contact your network administrator.

LP-E Card Applet

The LP-E Card Applet allows you to view the LP-E card configuration, manage network status indicators and specify what program, if any, to auto-launch. To open the applet, double-tap the LP-E icon in the task tray.

NOTE: The LP-E Card Applet performs the same functions on any Windows CE-based mobile computer. The example screens in this section are from a Palm-size PC. The screens you see will vary depending of the type of mobile computer you are using.

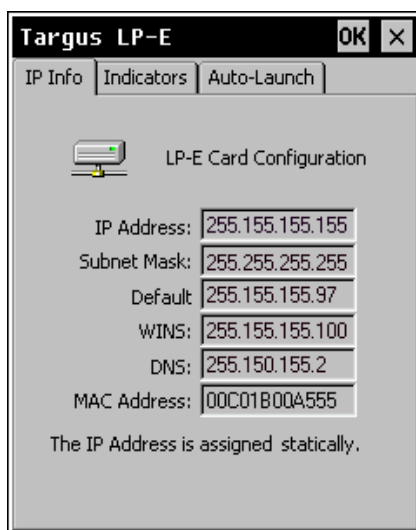
To open the applet on a Palm-size PC, tap **Start/Settings**, then tap the **Targus LP-E** icon.



To open the applet on a Handheld Pro or pen tablet, tap **Start/Settings/Control Panel**, then double-tap the **Targus LP-E** icon.



When you open the applet, you will see the Targus LP-E screen.



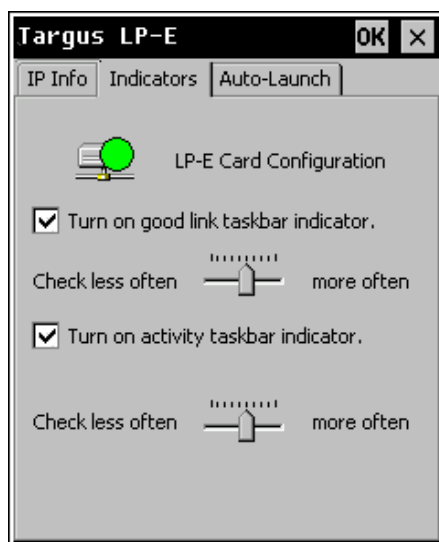
The IP Info tab displays a convenient layout of important IP addresses plus the MAC address of the card.

NOTE: The MAC address is a unique identification number programmed permanently into the LP-E Card.

To change any of the IP addresses, refer to [Changing IP Addresses](#), on page 33.

Tapping on the **Indicators** tab displays the network status indicators.

NOTE: By default, Targus' driver shows the network icon in the Windows CE status bar to indicate GoodLink (10BaseT only) and Activity.



If you check the box labeled **Turn on good link taskbar indicator**, the network icon will display a square when GoodLink is detected:



(GoodLink detected)

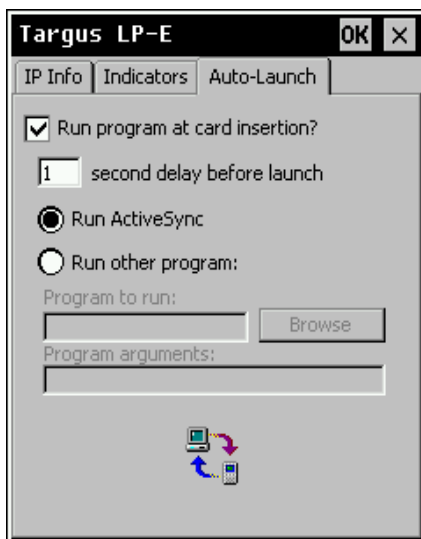
If you check the box labeled **Turn on activity taskbar indicator**, the network icon will display a dot when Activity is detected:



(Activity detected)

The two slide switches under each option box let you determine how often the Targus Ethernet driver checks network status. If you drag a gauge needle towards **Check less often**, the corresponding indicator will remain longer in its most recent state. If you drag a gauge needle towards **more often**, the corresponding indicator will change states more rapidly.

Tapping the **Auto-Launch** tab displays which program runs automatically when you insert the LP-E Card (if any).



NOTE: By default, ActiveSync will run automatically when you insert the LP-E Card.

You can specify any program to run at card insertion by selecting **Run other program:** and then using the **Browse...** button to select any program on your mobile computer.



If you do not want any program to run automatically at card insertion, tap the **Run program at card insertion?** box so that it is not checked.

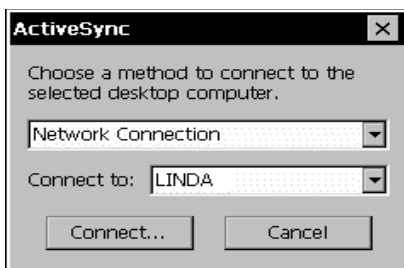
The number in the **second delay before launch** box controls how many seconds the Targus Ethernet driver will wait after card insertion before attempting to make a network connection or launch a program. Usually you can leave this number at its default value but, if you are having difficulty attaching to your network, you can try a higher value. You should rarely have to insert a delay longer than 10 seconds to make a network connection.

Launching ActiveSync Manually

To launch ActiveSync manually on your mobile computer, follow these steps:

- 1 Tap **Start/Programs/Communication/ActiveSync**.

You should see:



- 2 Tap the **Connect...** button.

Your host PC should display a series of synchronization status screens similar to:



In a few seconds, your mobile computer should display the Connection Status screen and report that the connection is up-to-date.

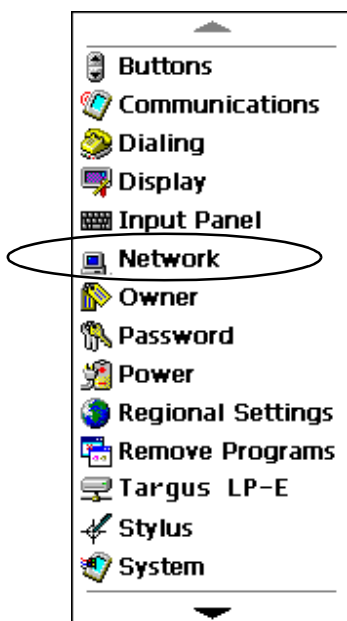
If you have trouble making the LP-E Card synchronize with the host, try removing the card and reinserting it or try resetting your mobile computer. If you have to change any IP addresses associated with the LP-E Card, use the Network program from the Settings option of the Start menu. This procedure is described in the next section. Remember that you must remove and reinsert the LP-E Card before any IP address changes will take effect. If you have problems installing the card, refer to [Troubleshooting](#), on page 39.

Changing IP Addresses

Targus' LP-E Card Applet allows you to view IP settings but not to modify them. To modify any IP addresses used to set up the LP-E, you must run the Windows CE Network applet.

NOTE: Remember that, after you modify IP address settings, you must remove and reinsert the LP-E Card before any IP address changes will take effect.

On a Palm-size PC, you can run the Windows CE Network applet by tapping **Start/Settings/Network**.

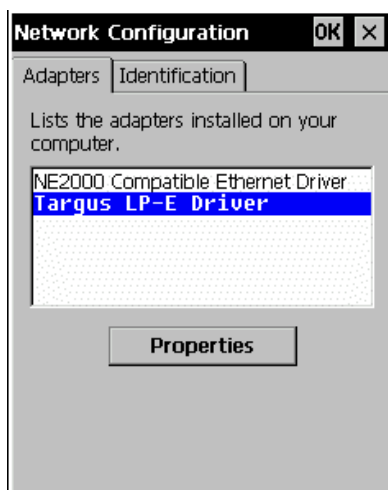


On an Handheld Pro or pen tablet, you can run the Windows CE Network applet by tapping **Start/Settings/Control Panel** and double-tapping the **Network** icon:

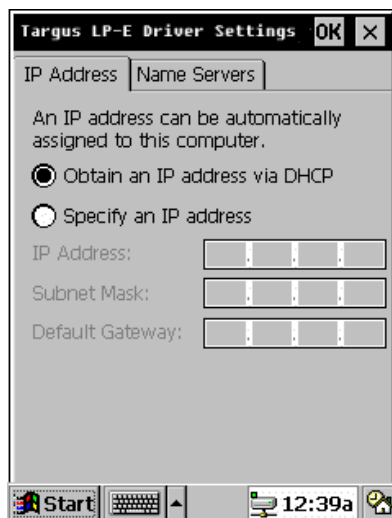


Network

On a Palm-size PC, the Network Configuration screen looks like this:



Tap **Targus LP-E Driver** to see the IP Settings screen.



Follow the instructions under Software Installation, steps 7 through 11.

Chapter 5 - Hardware Setup

Overview

This chapter explains how to connect the LP-E Card to your computer and to your Ethernet network, how to insert and remove the card, and the effects of leaving the LP-E Card in your computer.

Connecting the LP-E Card to Your Computer

The LP-E Card fits in the CompactFlash I/O card slot on your Palm-size PC, Handheld Pro or pen tablet. The user's manual for your computer explains how to access the CompactFlash I/O card slot.



Inserting the LP-E Card into the CompactFlash I/O card slot

The LP-E Card should fit easily into the CompactFlash I/O card slot. If you encounter resistance, make sure the card is aligned right-side up. Do not force the card into the slot.

Connecting an RJ-45 Ethernet Cable

To connect the LP-E Card to your network, plug the Ethernet adapter module into an active Ethernet port or hub via an RJ-45 cable (cable not included).

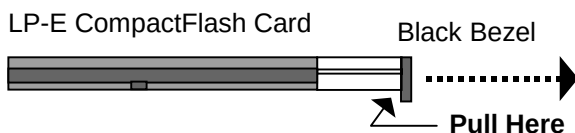


Connecting an RJ-45 cable to the Ethernet adapter module

Removing the LP-E Card

If your computer does not have a card eject button, you can remove the LP-E Card from its slot by gripping the inner edge of the black plastic bezel that runs across the end of the card on either side of the cable connector. The plastic bezel extends slightly beyond the metal surface on the base

of the card. This side view of the card shows how to pull it from the slot.



Leaving the LP-E Card in Your Computer

While your computer is on, the LP-E Card draws current even when it is not connected to an Ethernet network. Targus recommends that you remove the LP-E Card, when you are not using it, to conserve battery power.

Chapter 6 - Troubleshooting

Overview

This chapter discusses some of the problems you may encounter using the LP-E Card with Windows CE V2.11 and higher.

My New IP Addresses Don't Work

After you run the Network program to change IP addresses for your LP-E Card, you must remove and reinsert the card before the changes will take effect.

I Get a “DHCP Lease Has Expired” Message

If you are using DHCP and have not used your LP-E Card for a long time, you may get a message saying that your DHCP Lease has expired. Tap **OK** and continue.

My DHCP Server Is Out of IP Addresses

If your network DHCP Server runs out of IP addresses, your DHCP server will continually report that it is busy and you will not be able to connect to your network. If this happens, inform your network administrator.

ActiveSync Shows No Network Connection

This could occur if your mobile computer is using DHCP and is unable to get its TCP/IP information. Your mobile computer may have trouble communicating with your network's DHCP server or your DHCP server may be unavailable.

Try removing the LP-E Card and reinserting it. If this doesn't fix the problem, wait for a few minutes. If you see the message "Unable to contact DHCP server, using cached information," the LP-E Card is probably working properly. If after a few minutes ActiveSync still shows no network connection, ask your network administrator to verify that the DHCP server is working properly.

You can also try increasing the delay before launch setting in the **Auto-Launch** tab of the LP-E Applet. This is described in the LP-E Applet sections on [page 17](#) for Pocket PCs and on [page 27](#) for Windows CE-based mobile computers. If you have to set the delay to longer than 20 seconds, you should consult your network administrator.

NOTE: If you use a static IP address instead of DHCP, you may have to put the IP address of the host computer in the Primary WINS: field in order to use ActiveSync.

I Get an "Error Starting Program" Message

When you install the LP-E Card or other Targus product and you get a message similar to "Error starting program, a required dll file PPCLOAD.DLL not found," you probably tried to perform the installation without first establishing a Partnership or Guest relationship between your Windows CE-based Handheld Pro and your host desktop PC or notebook.

If You Still Have Problems

If you cannot resolve a technical problem with the LP-E Card, contact Targus' technical support department. Before contacting Targus, have the following information available:

- ❖ Serial number of your LP-E Card
- ❖ Operating system information for your:
 - Mobile computer (e.g., Windows CE v2.11)
 - Partner PC, if any (e.g., Windows 98)
- ❖ Brand name and model number of your mobile computer
- ❖ The CPU type and speed of your host PC, if any
- ❖ How you know that your LP-E Card is not working properly and what you did to try to correct the problem

To contact Targus:

- ❖ Visit Targus' web site at www.targus.com
- ❖ Email questions to TechSupport@targus.com
- ❖ Phone Targus' Technical Support department. Refer to [Technical Support](#), on page 46 for the appropriate phone numbers.

Appendix - Specifications

Physical Characteristics

CompactFlash CF Card:

Dimensions: 1.43 x 1.69 x 0.13 inches
(36.4 x 42.8 x 3.3 mm)

Weight: 0.32 oz. (9 g)

Cable with RJ-45 Ethernet
Module:

Module Dimensions: 1.65 x 0.89 x 1.02 inches
(42 x 22.5 x 26 mm)

Interconnect Cable: 10 in long (254 mm)

Weight: 1.5 oz. (42 g)

Power Consumption (supplied by PC host)

Active

With 3.3V Supply: 19 mA (63 mW)

Ethernet Interface

Protocol: 10BaseT (IEEE 802.3) Twisted Pair

Module Connector: RJ-45 female connector

Software Included

LP-E Driver Setup: Runs on Windows CE 2.11 or Pocket PC

*Windows CE LP-E Card
Applet*

Compatibility

Network Interface Card: NE2000

Performance

Ethernet Transfer Rate: 10 megabits per second

Certification

FCC: Part 15, Class B

CE: EN55022

C-Tick: N2953

Warranty

CompactFlash CF Card: Lifetime

Non-removable Cable: Lifetime

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Regulatory Compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. This equipment is also CE EN55022 and C-TICK compliant. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his or her own expense.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user may try to correct the interference by one or more of the following measures:

- ❖ Reorient or relocate the receiving antenna of the radio or television.
- ❖ Increase the distance separating the equipment and the receiver.
- ❖ Connect the equipment to an outlet on a different branch circuit than that of the receiver.
- ❖ Consult the dealer or an experienced radio/TV technician for help.

You may find the following booklet helpful:

How to Identify and Resolve Radio-TV Interference Problems

This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402.

Warranty

Targus warrants this product to be free from defects in materials and workmanship for its lifetime. If your Targus Low Power Ethernet Card is found to be defective within that time, we will promptly repair or replace it. This warranty does not cover accidental damage, wear and tear, or consequential or incidental loss. Under no conditions is Targus liable for loss or damage to a computer or handheld device, nor loss of, or damage to, programs, records, or data; nor any consequential or incidental damages, even if Targus has been informed of their possibility. This warranty does not affect your statutory right.

Register your Targus Low Power Ethernet Card online at:

http://www.targus.com/product_registration.asp

Technical Support

If you encounter a problem with your Targus accessory, contact our technical support team at:

Email: techsupport@targus.com

Internet: www.targus.com/support

Our knowledgeable staff is also available to answer your questions through one of the following numbers:

North America

Monday through Friday, 8:00 a.m. (08:00) to 6:00 p.m. (18:00) Eastern time:

US & Canada: 800-283-6325

Europe

Belgium	+32 (0) 02-717-2451
Denmark	+45 (0) 35-25-8751
France	+33 (0) 1-64-53-9151
Germany	+49 (0) 21-16-579-1151
Italy	+39 (0) 24-827-1151
Netherlands	+31 (0) 53-484-9470
Spain	+34 (0) 91-745-6221
Sweden	+46 (0) 8-751-4058
Switzerland	+41 (0) 1-212-0007
UK	+44 (0) 20-7744-0330
Eastern Europe and Others	+31 (0) 53-484-9479



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